



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
DIPARTIMENTO DI
SCIENZE MEDICHE E CHIRURGICHE

POLICLINICO DI
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New in Drugs Hematology

President: Pier Luigi Zinzani

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**Bologna,
Royal Hotel Carlton
January 15-17, 2024**

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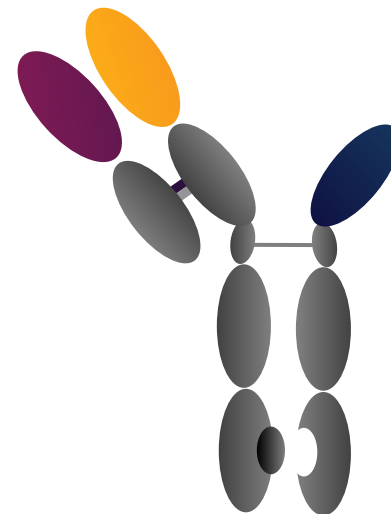
Disclosures of Ryan Jacobs

| Company name | Research support | Employee | Consultant | Stockholder | Speakers bureau | Advisory board | Other |
|---------------|------------------|----------|------------|-------------|-----------------|----------------|-------|
| AstraZeneca | X | | X | | X | X | |
| TeneoBio | X | | | | | | |
| Pharmacyclics | X | | X | | X | | |
| Lilly | X | | X | | | | |
| Abbvie | X | | X | | X | | |
| Genentech | | | X | | | | |
| Beigene | | | | | X | X | |
| SecuraBio | | | | | X | | |
| Gilead | | | | | X | | |

TNB-486 (now AZD0486), a Novel CD19xCD3 T-cell Engager (TCE), in Relapsed/Refractory NHL: Interim Results From an Ongoing Phase I Study

Ryan Jacobs, MD

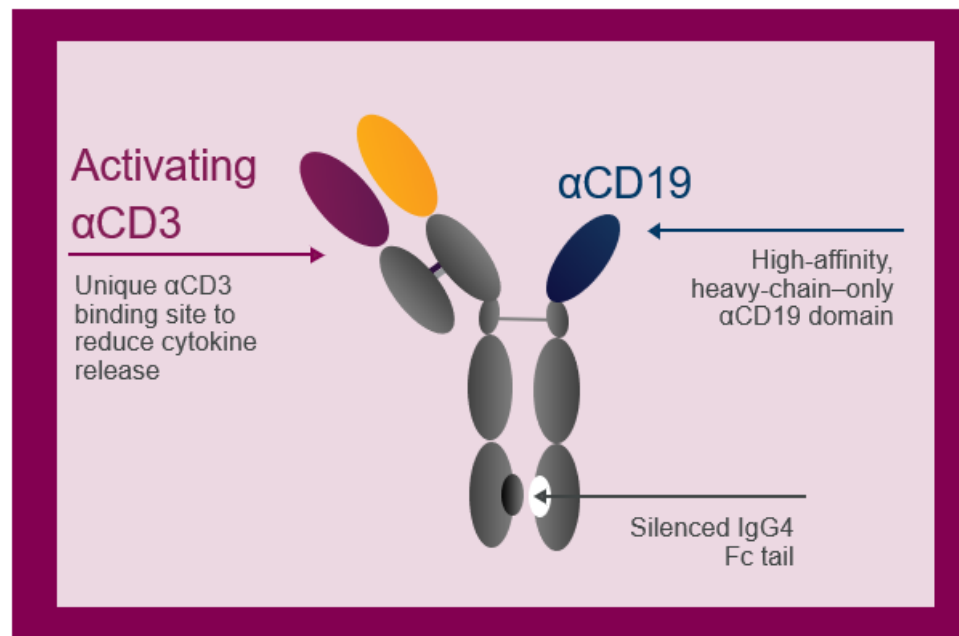
*Director, Division of Lymphoma Therapy & Research,
Dept of Hematologic Oncology, Cellular Therapy & Blood Disorders
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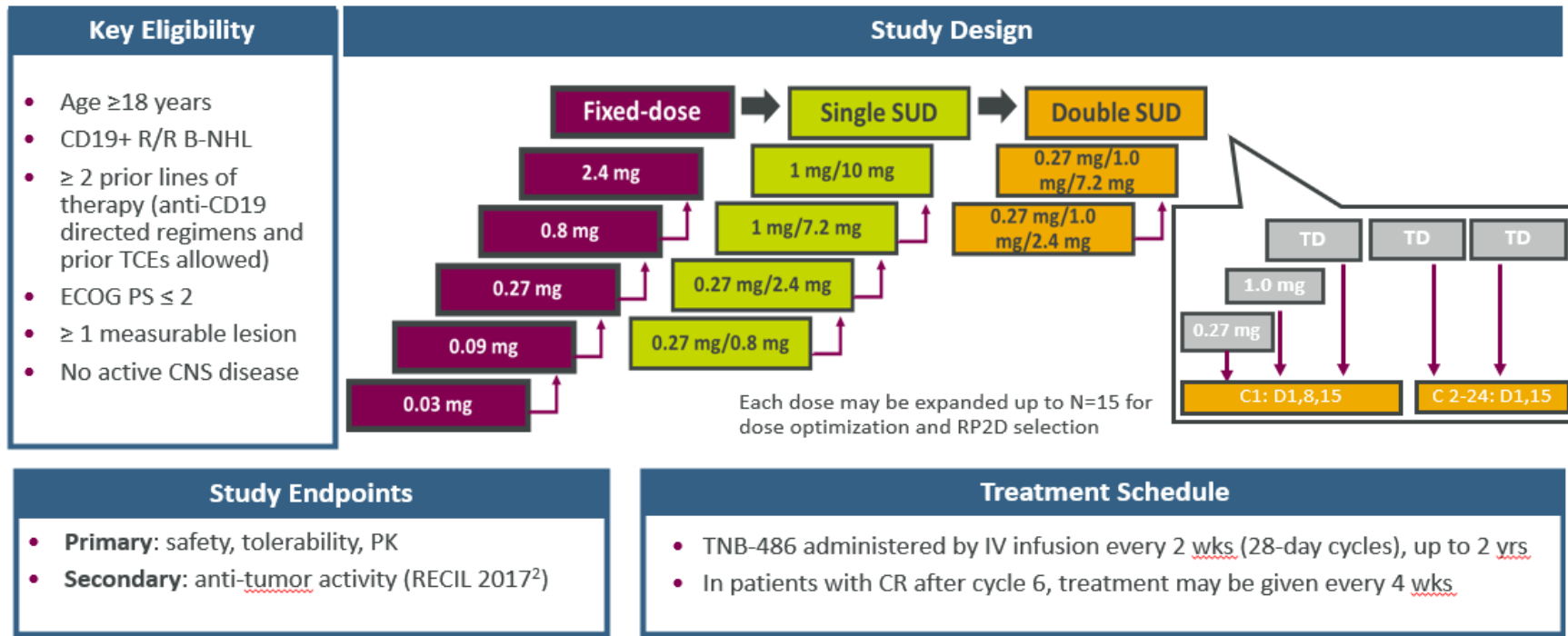
Background

- Despite treatment advances including the use of CAR T-cell therapies and CD20-directed T-cell engagers (TCE), significant **unmet need** remains for patients with **R/R HL after ≥ 2 lines of prior therapy**, with progressive **shortening of PFS** with each line of treatment
- CD20 antigen loss following multiple rounds of CD20-directed therapies is associated with poor prognosis
- TNB-486 is a **CD19 x CD3** fully **human IgG4 TCE** rationally **designed** to maintain **high efficacy while reducing toxicity**

Figure 1. AZD0486 Structure

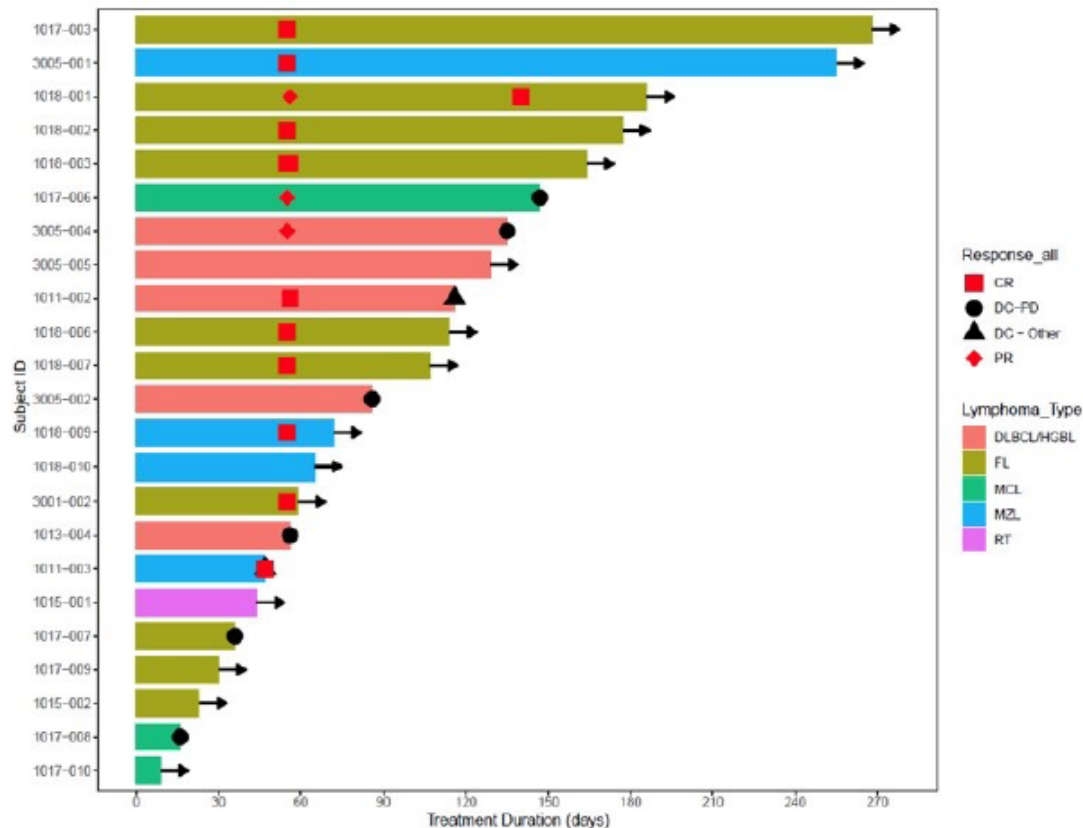


TNB486.001 (NCT04594642¹): an ongoing Phase 1, Global, Dose-escalation and Optimization Trial in R/R B-NHL



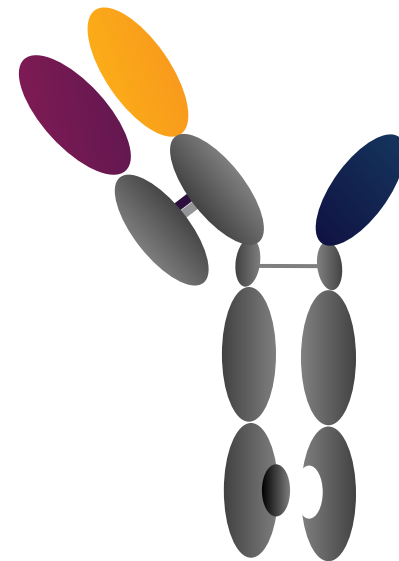
ASH 2022

| Gender, n (%) | |
|--|--------------|
| Female | 12 (44) |
| Male | 15 (56) |
| Age, Median (Range) | |
| | 68 (38 - 85) |
| Lymphoma Subtype, n (%) | |
| Follicular | 12 (44) |
| Diffused Large B-cell/High Grade | 7 (26) |
| Marginal Zone | 4 (15) |
| Mantle Cell | 4 (15) |
| Prior Lines of Therapy, Median (Range) | |
| >3 Prior Lines of Therapy | 15 (56) |
| Prior CAR-T | 5 (19) |
| Prior HSCT | 4 (15) |
| Lymphoma Stage at Diagnosis, n (%) | |
| Unknown | 3 (11) |
| Stage I - II | 3 (11) |
| Stage III - IV | 21 (78) |
| ECOG, n (%) | |
| 0 | 8 (30) |
| 1 | 17 (63) |
| 2 | 2 (7) |
| CD20-negative, n (%) | |
| | 6 (22) |



ASH 2022

- ORR at >800 uG was 72% (13/18); CR rate 61%
- 2/3 patients previously treated with CAR T achieved a CR
- 3/4 MZL patients achieved CR
- For DLBCL ORR 40%
- One DLBCL patient achieved an MRD negative CR
 - First CR for this patient after 5 prior lines of therapy including CAR T



EHA 2023

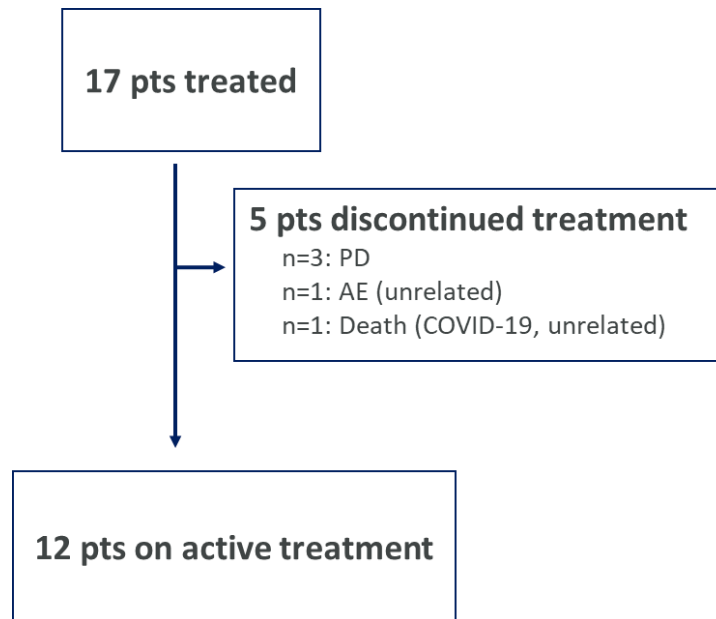
High Complete Response Rate with TNB-486, a Novel CD19xCD3 T-cell Engager (TCE), in Relapsed/Refractory (R/R) Follicular Lymphoma (FL): Interim Results From an Ongoing Phase I Study

Ryan Jacobs, MD¹, Ranjit Nair, MD², Seok-Goo Cho, MD, PhD³, Sumana Devata, MD⁴, Sameh Gaballa, MD⁵, Dok Hyun Yoon, MD, PhD⁶, Don A. Stevens, MD⁷, Jin Seok Kim, MD, PhD⁸, Nirav Niranjana Shah, MD⁴, Denise Brennan⁹, Jason Law, MD⁹, Robin Lesley PhD¹⁰, Rob Chen, MD¹¹, Alessandra Forcina, MD¹¹, Ben Buelow, MD, PhD¹², Jing-Zhou Hou, MD, PhD¹³

¹Atrium Health Levine Cancer Institute, Charlotte, NC, USA; ²The University of Texas MD Anderson Cancer Center, Houston, TX, USA; ³Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of South Korea; ⁴Medical College of Wisconsin, Milwaukee, WI, USA; ⁵H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL, USA; ⁶Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of South Korea; ⁷Norton Cancer Institute, Norton Health Care, Louisville, KY, USA; ⁸Severance Hospital, Yonsei University College of Medicine, Seoul, Republic of South Korea; ⁹AstraZeneca, Waltham, MA, USA; ¹⁰AstraZeneca, South San Francisco, CA, USA; ¹¹AstraZeneca, Cambridge, UK; ¹²Ancora Biotech, Inc., Palo Alto, CA, USA; ¹³Lemieux Center for Blood Cancers, UPMC Hillman Cancer Center, Pittsburgh, PA, USA

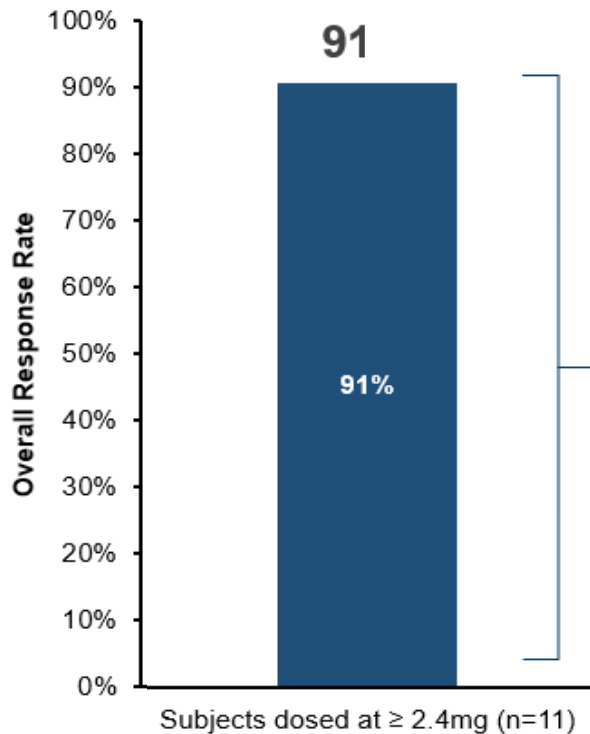
Most FL patients had heavily pre-treated, high risk disease

| Baseline Characteristics | N =17 |
|--|------------------|
| Median age, years (range) | 64 (33-86) |
| Ann Arbor stage III-IV, n (%) | 11 (64.7) |
| CD20 negative disease | 5 (29.4) |
| POD24, n (%) | 9 (52.9) |
| Refractory to last line of treatment | 4 (23.5) |
| Prior lines of therapy, median (range) | 3 (2-9) |
| ≥ 3 lines, n (%) | 12 (70.6) |
| Types of prior treatment, n (%) | |
| Alkylating agent | 13 (76.5) |
| Anti-CD20 mAb | 17 (100.0) |
| IMiD | 8 (47.1) |
| CD19-directed CAR-T | 2 (11.8) |
| CD20-directed TCE | 2 (11.8) |
| Autologous HSCT | 1 (5.9) |



Clinical cut-off date: December 31, 2022

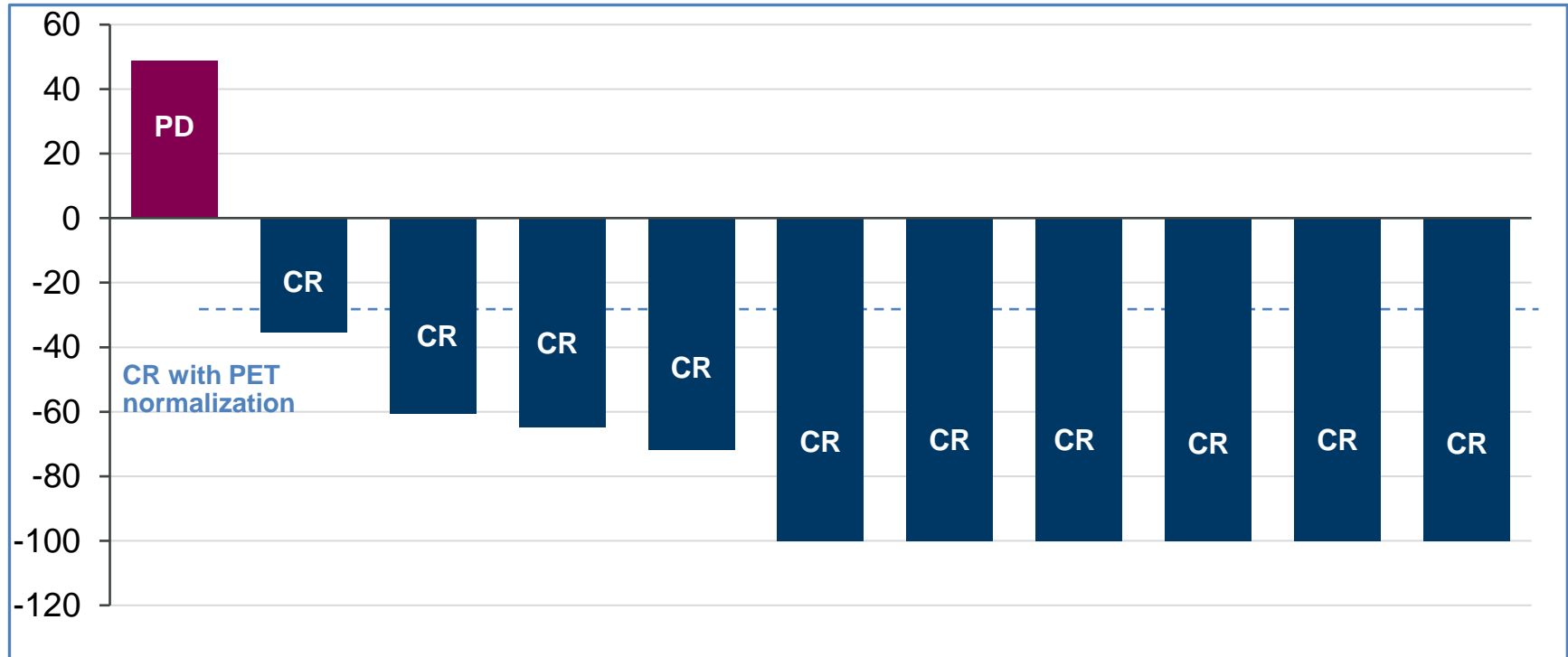
High complete response rate reported by IRC



- **ORR / CR rate 91% (10/11) at target doses of ≥ 2.4 mg**
- **Out of 5 CR patients with available samples, all were MRD negative by NGS**

| <u>n=11</u> | ORR | CR |
|---|------------|------------|
| <u>CD20 negative status, n (%)</u> | 2/2 (100%) | 2/2 (100%) |
| <u>Prior CD20 TCE</u> | 2/2 (100%) | 2/2 (100%) |
| <u>POD24, n (%)</u> | 5/5 (100%) | 5/5 (100%) |
| <u>≥ 4 prior lines</u> | 3/4 (75%) | 3/4 (75%) |

Best response in patients treated at ≥ 2.4 mg



Responses by RECIL 2017; CR, complete response; ORR, overall response rate; PD, progressive disease

Double Step-up Dosing (2SUD) Regimen Mitigates Severe ICANS and CRS While Maintaining High Efficacy in Subjects With Relapsed/Refractory (R/R) B-cell non-Hodgkin lymphoma (NHL) Treated With AZD0486, a Novel CD19xCD3 T-cell engager (TCE): Updated Safety and Efficacy Data From the Ongoing First-in-Human (FIH) Phase 1 trial

Sameh Gaballa¹, Ranjit Nair², Ryan Jacobs³, Sumana Devata⁴, Seok-Goo Cho⁵, Don Stevens⁶, Dok Hyun Yoon⁷, Nirav Shah⁴, Denise Brennan⁸, David Sermer⁹, Rob Chen¹⁰, Jason Law⁸, Robin Lesley¹¹, Ben Buelow¹², Alessandra Forcina¹⁰, and Jing-Zhou Hou¹³

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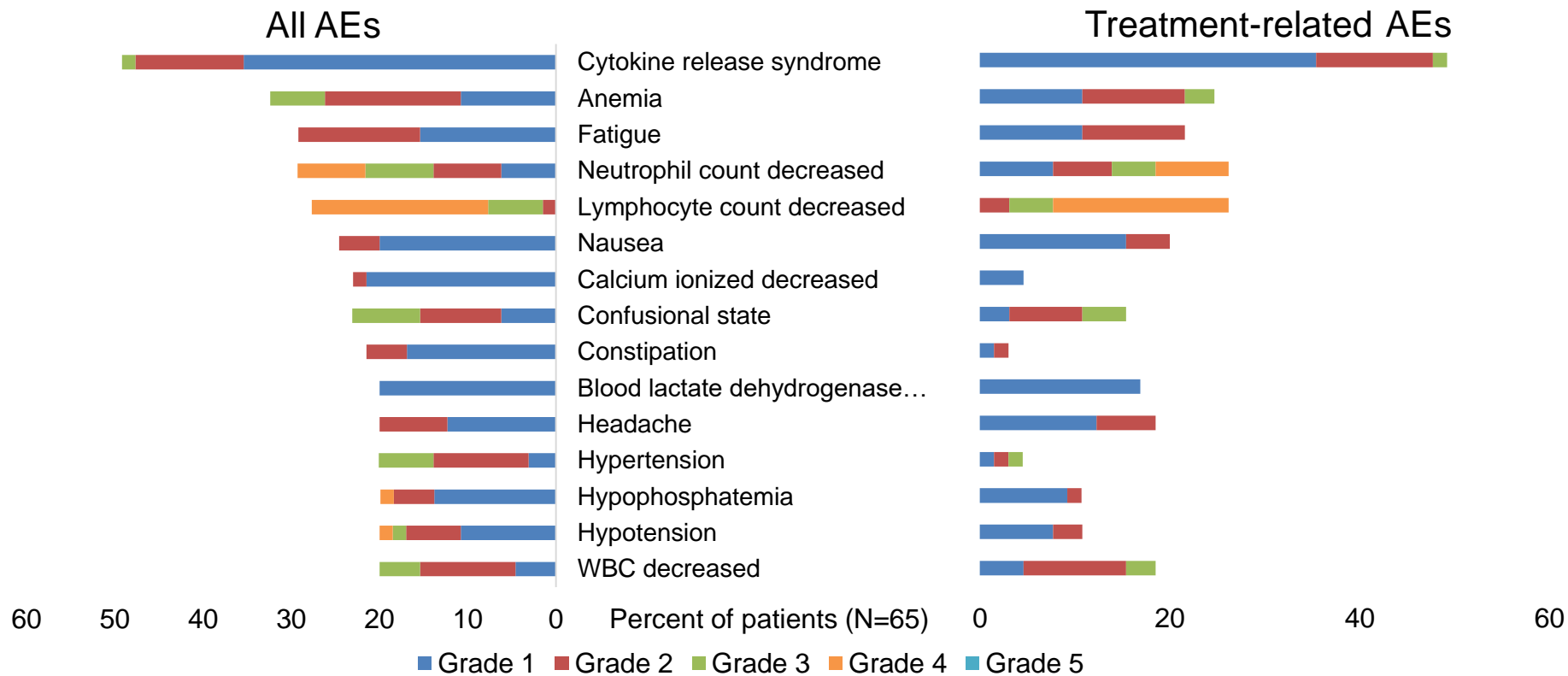
¹H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL; ²The University of Texas MD Anderson Cancer Center, Houston, TX; ³Atrium Health Levine Cancer Institute, Charlotte, NC; ⁴Medical College of Wisconsin, Milwaukee, WI; ⁵Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea; ⁶Norton Cancer Institute, Norton Health Care, Louisville, KY; ⁷Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea; ⁸AstraZeneca, Waltham, MA; ⁹AstraZeneca, New York, NY; ¹⁰AstraZeneca, Cambridge, UK; ¹¹AstraZeneca, South San Francisco, CA; ¹²Ancora Biotech, Inc., Palo Alto, CA; ¹³Lemieux Center for Blood Cancers, UPMC Hillman Cancer Center, Pittsburgh, PA

Demographic and Baseline Characteristics

| Characteristic | N=65 |
|---------------------------------------|------------|
| Age, median (range), y | 68 (22–86) |
| Male, n (%) | 38 (58.5) |
| ECOG PS at study entry, n (%) | |
| 0 | 27 (41.5) |
| 1–2 | 38 (58.5) |
| Ann Arbor stage III–IV, n (%) | 49 (75.4) |
| CD20-negative, n (%) | 17 (26.2) |
| Median prior lines of therapy (range) | 3 (2–21) |
| 2 lines, n (%) | 14 (21.5) |
| ≥3 lines, n (%) | 49 (75.4) |
| Unknown | 2 (3.1) |
| Type of lymphoma | |
| DLBCL/HGBL | 29 (44.6) |
| MCL | 5 (7.7) |
| FL | 26 (40.0) |
| MZL | 4 (6.2) |
| Other | 1 (1.5) |

| Characteristic | N=65 |
|---|-----------|
| Refractory to last line of therapy, n (%) | 22 (33.8) |
| Prior types of treatment, n (%) | |
| CD19-directed CAR T | 16 (24.6) |
| CD20 T-cell engager | 3 (4.6) |
| IMiD | 17 (26.2) |
| Allogeneic SCT | 4 (6.2) |
| Autologous SCT | 3 (4.6) |

AEs Affecting $\geq 20\%$ of Patients vs Treatment-related AEs



Patient Disposition

| | N=65 |
|--|-----------|
| Reasons for discontinuing treatment, n (%) | 32 (49.2) |
| Disease progression | 23 (35.4) |
| Physician decision | 3 (4.6) |
| Withdrawal of consent | 2 (3.1) |
| Death ^a | 1 (1.5) |
| Other ^b | 1 (1.5) |
| Drug-related AE ^c | 0 |

^aOne patient died due to COVID-19 infection that was not considered by the investigator to be treatment related.

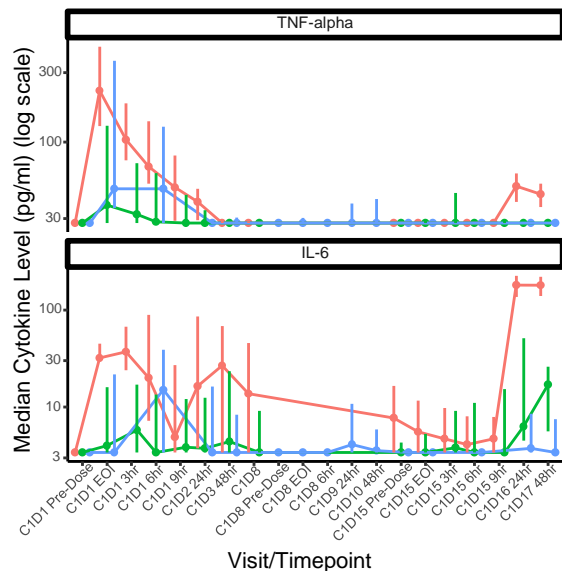
^bAfter achieving a CR, patient received allogeneic SCT

^cOne patient discontinued treatment due to an AE of COVID-19 that was not considered by the investigator to be treatment-related; the patient died and never resumed treatment.

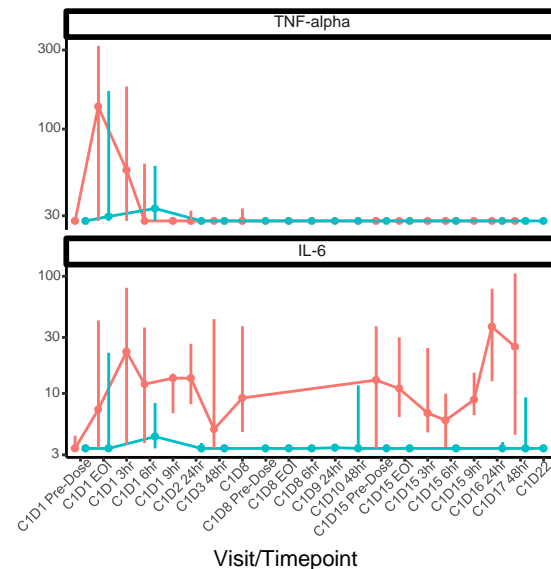
Reduction of CRS and ICANS Events in Patients Treated in the Double SUD Cohorts Compared With Fixed and Single SUD Cohorts

| | CRS | | | ICANS | | |
|-----------|---|-------------------------------|-------------------------------|------------------------------|-------------------------------|-------------------------------|
| | DLBCL/HGBL and FL Treated at Target Doses of 2.4 mg and 7.2 mg (N=44) | | | | | |
| Grade | Fixed n=5 (% of total) | 1 SUD n=19 (% of total) | 2 SUD n=20 (% of total) | Fixed n=5 (% of total) | 1 SUD n=19 (% of total) | 2 SUD n=20 (% of total) |
| Grade 1–2 | 5 (100) | 10 (52.6) | 6 (30.0) | 1 (20.0) | 3 (15.8) | 1 (5.0) |
| Grade 3 | 0 | 0 | 0 | 1 (20.0) | 3 (15.8) | 0 |

Cytokine Levels After Target Dose With Double SUD Compared With Fixed Dosing and Single SUD

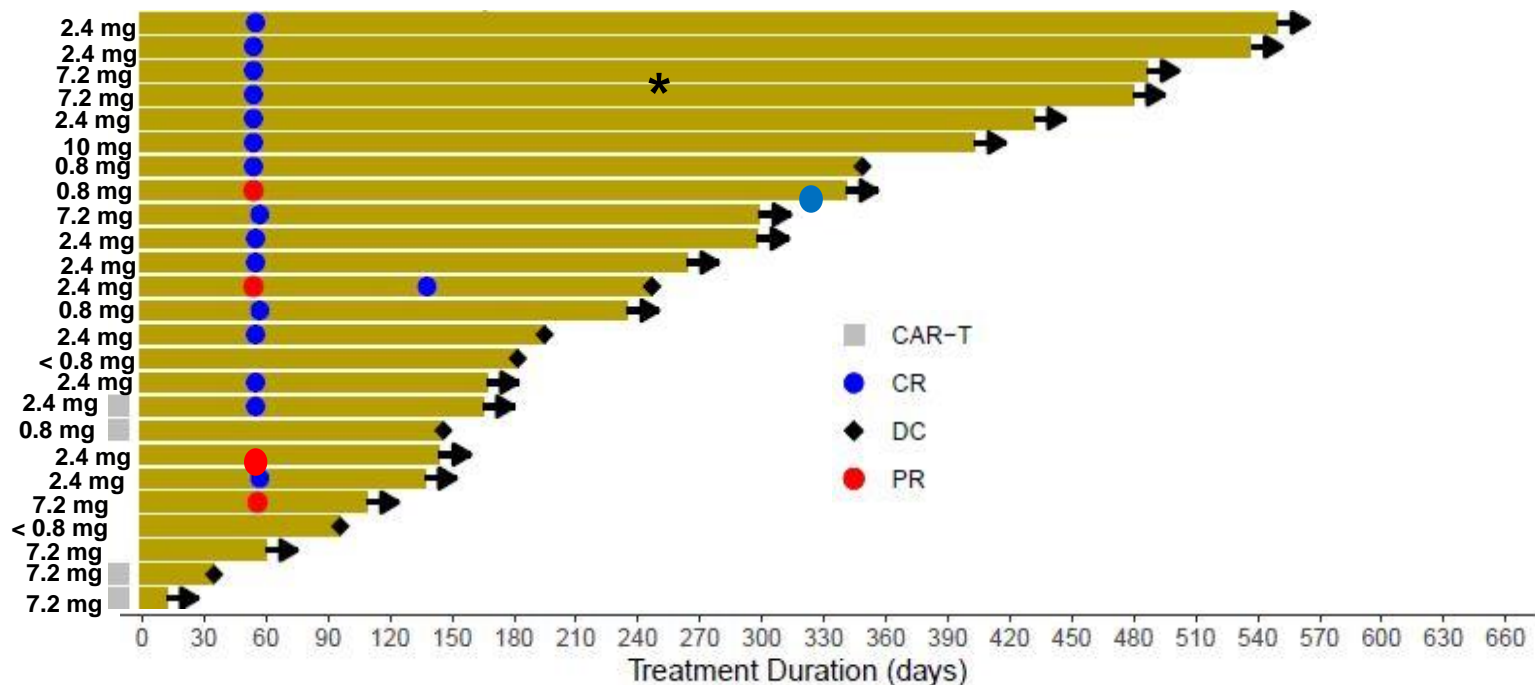


Data show median and interquartile range



All Subtypes

Duration of Treatment for Patients With FL – ASH 2023 Update



Response Rates of Treatment for Patients With FL – ASH 2023 Update

| AZD0486 ¹ | 2.4mg | 7.2mg | TD ≥ 0.8 |
|----------------------|-----------------|--------------|----------------|
| Evaluable | 14 | 7 | 27 |
| ORR | (14/14) 100% | (6/7) 86% | (25/27) 93% |
| CR | (12/14) 86% | (5/7) 71% | (21/27) 78% |

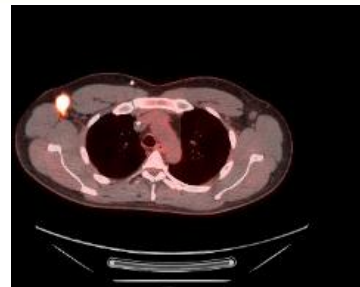
| | Mosunetuzumab ² | Odronextamab ³ |
|-----|----------------------------|---------------------------|
| ORR | 80% | 81% |
| CR | 60% | 75% |

| 12-mo DOR (%) | | |
|----------------------|----------------------------|---------------------------|
| AZD0486 ¹ | Mosunetuzumab ² | Odronextamab ³ |
| 82% | 62% | 69% |

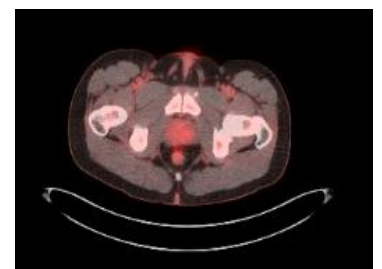
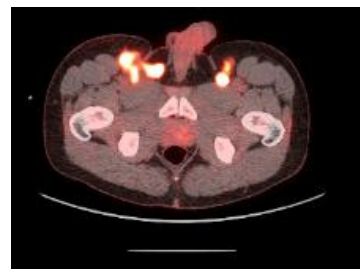
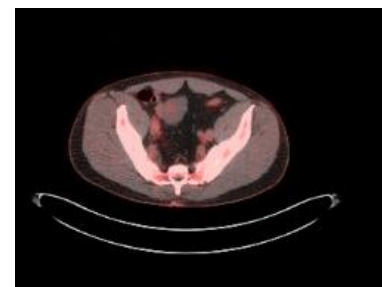
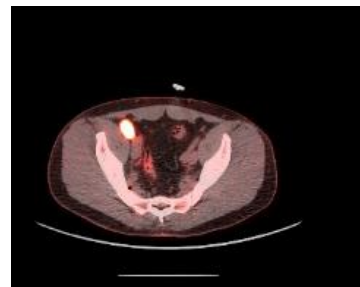
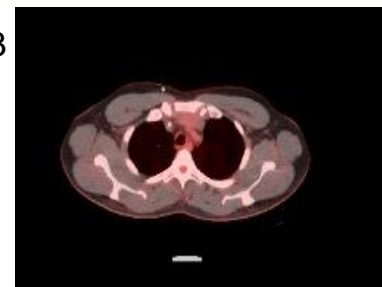
Patient RMN

8/31/22

- 32 y/o Hispanic male with FL
- POD 24 following RCHOP while on rituxan maintenance
- Refractory to 2L therapy on GCT3010-02 with Epc+Rev+Ritux
- Enrolled on TNB486 9/13/22 at 2.4mg cohort with single SUD.
- Had G3 ICANS with confusion at first 2.4mg dose
 - Resolved within 48 hours.
- Last PET CT 10/16/23 with ongoing CR.



10/16/23



Conclusions and Future Directions

- With double SUD, AZD0486 appears safe with low CRS and ICANS
- High CR rates in FL at current doses
- Expand enrollment of DLBCL at 15mg and add additional dose levels
- Will explore subcutaneous dosing for patient convenience
- Separate DLBCL and FL Phase 2 trial planned when RP2D is reached
- Exploration into other disease subtypes
 - CLL
 - MCL
 - ALL